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P2.016 KM3NeT/ARCA sensitivity to point-like neutrino sources

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KM3NeT is network of deep-sea neutrino telescopes in the Mediterranean Sea. The ARCA detector, installed in the CapoPassero site (Italy) is optimised for the detection of high-energy neutrinos of cosmic origin. The geographical location of KM3NeT in the Northern hemisphere allows to observe most of the Galactic Plane, including the Galactic Centre. Thanks to its good angular resolution, prime targets of KM3NeT/ARCA are point-like neutrino sources and in particular galactic sources. Under the hypothesis of hadronic gamma emission and transparent sources, models for galactic neutrino sources are well constrained by TeV gamma-ray observations and allow to obtain realistic expectations on the detection perspectives. We report the ARCA sensitivities for galactic sources such as the supernova remnant RXJ1713.7-3946 and the pulsar wind nebula Vela Jr, that are at present among the most intense known galactic objects in the high energy gamma-ray band. The discovery potential is also evaluated for generic point-like sources with E-2 spectrum, being this spectrum a possible approximation for neutrino extragalactic sources.